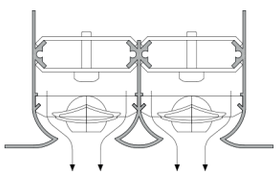
# DEL-A

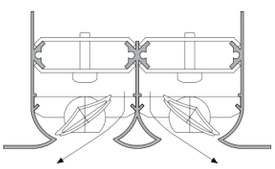
Linear slot diffuser with adjustable aluminum deflectors without predisposition for damper and equalizer, with a high induction ratio (mixing capacity) between the input air and the ambient air.
Made up of aluminum profiles coupled to obtain multiple slits inside which adjustable aluminum deflectors are housed. The flow of the incoming air can be oriented in the right, left or alternating direction, by varying the position of the deflectors.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

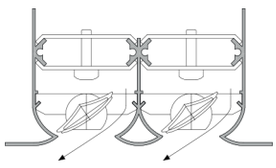
| INSTALLATION HEIGHT | APPLICATIONS | MATERIAL | STANDARD FINISHING | ON REQUEST FINISHING | FASTENING TO PLENUM |
|---|---|---|---|---|---|
| 2,5 a 4m | The DEL diffuser can also be used for air return; in this case it is supplied without deflecting fins. The deflectors can also be oriented after the diffuser has been installed in order to make adjustments to optimise airflow in the room once the system is running. | Extruded anodised aluminium profiles, ABS supports and aluminum deflector | Anodized aluminum or white RAL 9010<br>-<br>Gray anodized aluminum deflectors (on request RAL 9010) | On request, frame painting in non-standard RAL colors<br>-<br>Paintable deflectors same RAL color as the frame | By menas of anchoring bridges on the plenum |



VERTICAL THROW



TWO-WAY HORIZONTAL THROW



ONE-WAY HORIZONTAL THROW

## GREEN BUILDING

Thanks also to the support of GreenMap, products manufactured by Tecnica srl contribute to obtain the credits of the major international rating systems for suistainable buildings:

**LEED**
Contributes to credits:
IP, EA, MR, EQ

**WELL**
Contributes to credits:
AIR, THERMAL COMFORT, MATERIALS, COMMUNITY

**BREEAM**
Contributes to credits:
MAN, HEA, WST

For further details about specific contributions to the credits indicated, contact Tecnica Srl

## TECHNICAL DATA

| Length [mm] | Slot [n.] | L1 [mm] | L2 [mm] | L3 [mm] | A [mm] | B [mm] | C [mm] |
|---|---|---|---|---|---|---|---|
| 800 | 1 | 800 | 797 | 829,8 | 44,4 | 67,0 | 56,2 |
| | 2 | 800 | 797 | 829,8 | 87,6 | 110,2 | 56,2 |
| | 3 | 800 | 797 | 829,8 | 130,8 | 153,4 | 56,2 |
| | 4 | 800 | 797 | 829,8 | 174,0 | 196,6 | 56,2 |
| 1000 | 1 | 1000 | 997 | 1029,8 | 44,4 | 67,0 | 56,2 |
| | 2 | 1000 | 997 | 1029,8 | 87,6 | 110,2 | 56,2 |
| | 3 | 1000 | 997 | 1029,8 | 130,8 | 153,4 | 56,2 |
| | 4 | 1000 | 997 | 1029,8 | 174,0 | 196,6 | 56,2 |



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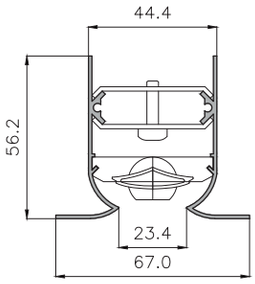
## TECHNICAL DATA

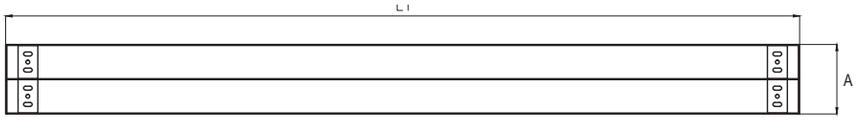
| Length [mm] | Slot [n.] | L1 [mm] | L2 [mm] | L3 [mm] | A [mm] | B [mm] | C [mm] |
|---|---|---|---|---|---|---|---|
| 1500 | 1 | 1500 | 1497 | 1521 | 44,4 | 67,0 | 56,2 |
| | 2 | 1500 | 1497 | 1521 | 87,6 | 110,2 | 56,2 |
| | 3 | 1500 | 1497 | 1521 | 130,8 | 153,4 | 56,2 |
| | 4 | 1500 | 1497 | 1521 | 174,0 | 196,6 | 56,2 |
| 2000 | 1 | 2000 | 1997 | 2021 | 44,4 | 67,0 | 56,2 |
| | 2 | 2000 | 1997 | 2021 | 87,6 | 110,2 | 56,2 |
| | 3 | 2000 | 1997 | 2021 | 130,8 | 153,4 | 56,2 |
| | 4 | 2000 | 1997 | 2021 | 174,0 | 196,6 | 56,2 |

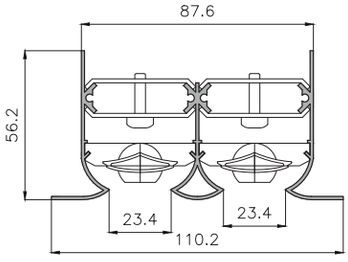
## APPLICATIONS

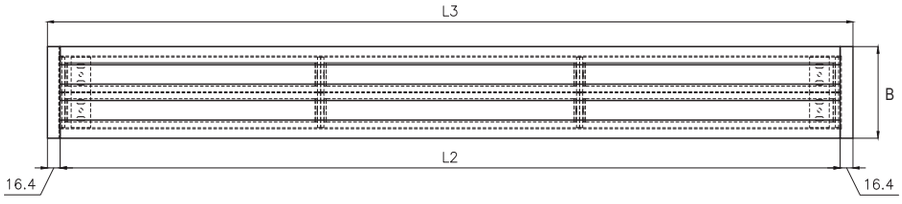
| Residential | Easy Pack | Calculation Method | REACH Certificat | RoHS Certificat | Industry | Building | Air Conditioning | Interior design |
|---|---|---|---|---|---|---|---|---|

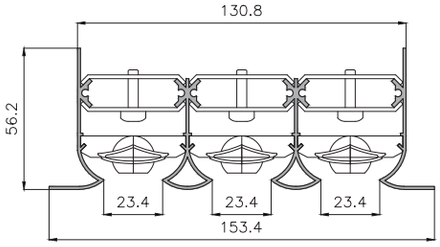
*on request

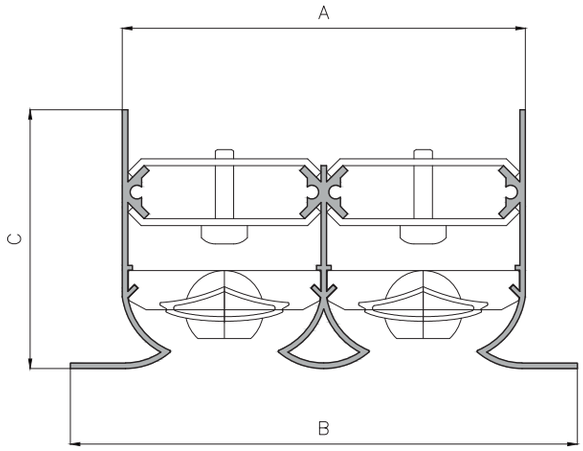


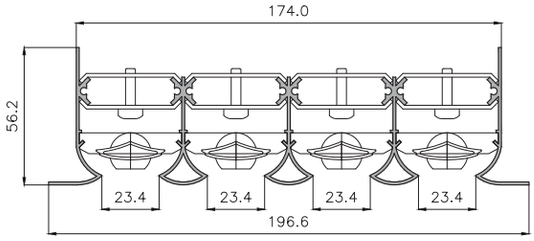



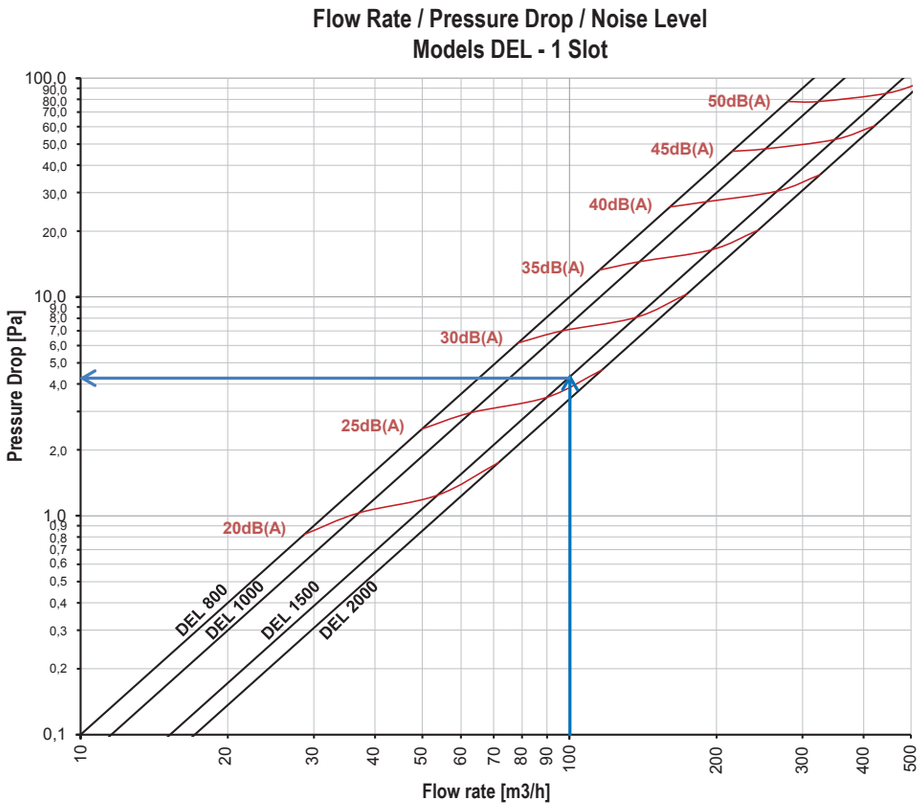



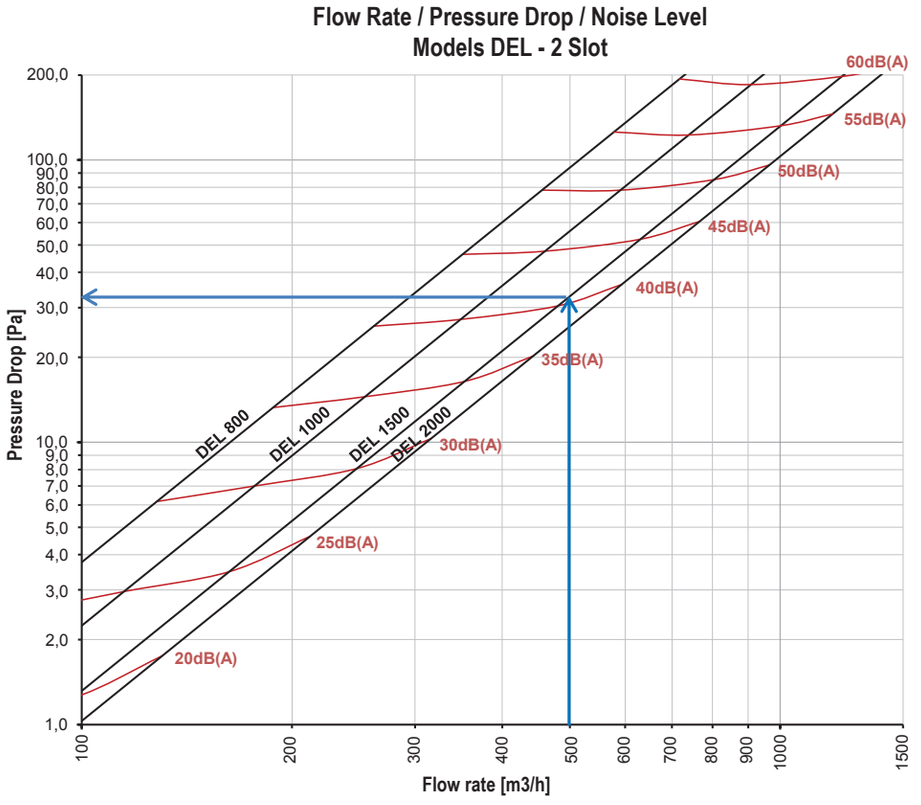
## Selection Charts




### Diagram 1 - 1 slot

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the sound power level without environmental attenuation.

| CALCULATION (input data) | |
|---|---|
| Total Flow Rate | 100 $m^3/h$ |
| Max Noise Level | <30dB(A). |
| Horizontal Throw | 4,0m. |
| Vertical Throw | 2,8m |




| SELECTION | |
|---|---|
| Model | DEL 1500 1 SLOT |
| Flow Rate | 107 $m^3/h$ |
| Pressure Drop | 5Pa |
| Noise Level | 27dB(A) |
| Inlet Air Speed | 2m/s |
| Horizontal Isothermal Throw | 4,0m |
| Vertical Isothermal Throw | 2,8m |

### Diagram 2 - 2 slots

**Note:** Pressure drop data shown in the diagram refer to the diffuser with the damper fully open.



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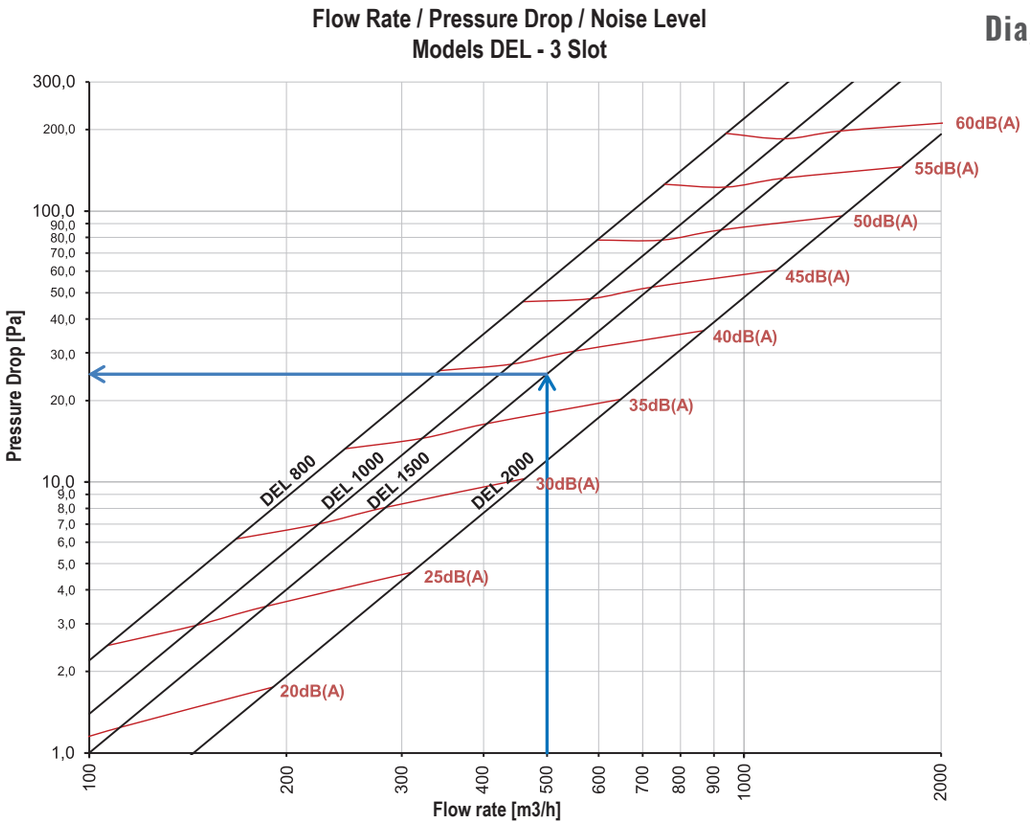
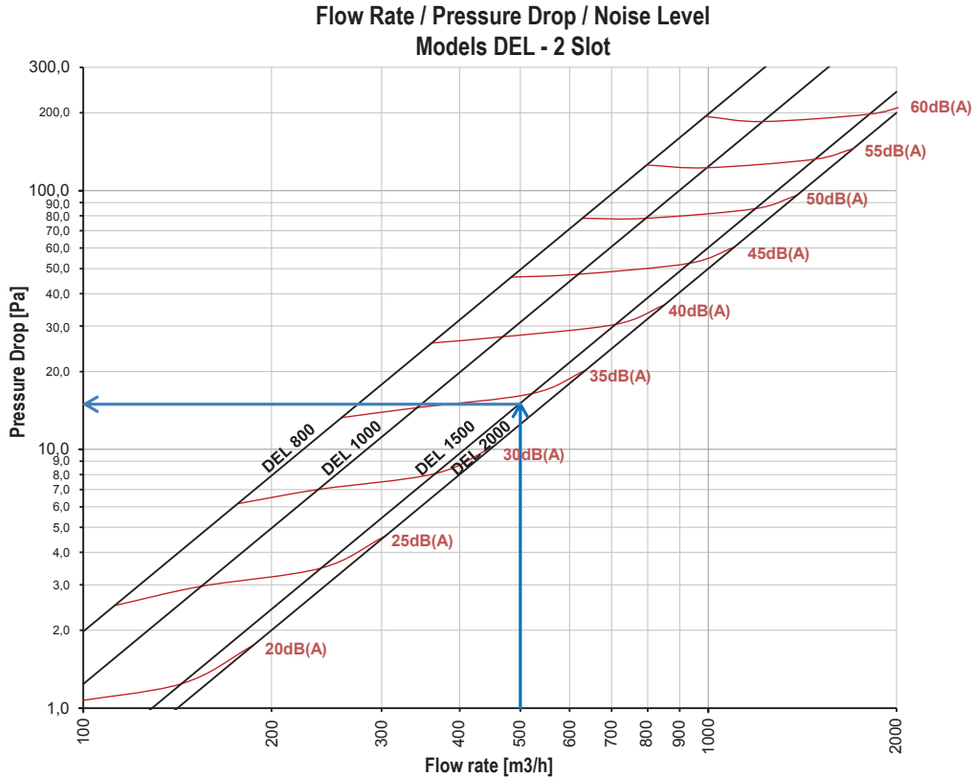
## Diagram 3 - 3 slots




## Diagram 4 - 4 slots



## QUICK SELECTION TABLE - L. 800mm - ISOTHERMAL CONDITIONS

| MODEL | DESCRIPTION | U.M. | Vi (m/sec) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| DEL 800 1 SLOT Ak: 0,0080m2 | Flow Rate | m3/h | 29 | 57 | 86 | 115 | 143 | 172 | 201 | 229 | 258 | 287 |
| | Pressure Drop | Pa | 1 | 3 | 7 | 13 | 21 | 30 | 40 | 53 | 67 | 82 |
| | Horizontal Throw Vt 0,25 | mt | 1,1 | 2,1 | 3,2 | 4,2 | 5,3 | 6,3 | 7,4 | 8,4 | 9,5 | 10,6 |
| | Vertical Throw Vt 0,25 | mt | 0,7 | 1,5 | 2,2 | 3,0 | 3,7 | 4,4 | 5,2 | 5,9 | 6,6 | 7,4 |
| | Noise Level | dB(A) | 20 | 26 | 31 | 35 | 38 | 41 | 44 | 46 | 48 | 50 |
| DEL 800 2 SLOT Ak: 0,0159m2 | Flow Rate | m3/h | 57 | 115 | 172 | 229 | 287 | 344 | 401 | 458 | 516 | 573 |
| | Pressure Drop | Pa | 1 | 5 | 11 | 20 | 31 | 44 | 61 | 79 | 100 | 124 |
| | Horizontal Throw Vt 0,25 | mt | 1,5 | 3,0 | 4,5 | 6,0 | 7,5 | 9,0 | 10,5 | 12,0 | 13,5 | 15,0 |
| | Vertical Throw Vt 0,25 | mt | 1,0 | 2,1 | 3,1 | 4,2 | 5,2 | 6,3 | 7,3 | 8,4 | 9,4 | 10,5 |
| | Noise Level | dB(A) | 22 | 29 | 34 | 38 | 41 | 45 | 47 | 50 | 53 | 55 |
| DEL 800 3 SLOT Ak: 0,0239m2 | Flow Rate | m3/h | 86 | 172 | 258 | 344 | 430 | 516 | 602 | 688 | 774 | 860 |
| | Pressure Drop | Pa | 2 | 6 | 15 | 26 | 41 | 58 | 80 | 104 | 131 | 162 |
| | Horizontal Throw Vt 0,25 | mt | 1,8 | 3,5 | 5,3 | 7,1 | 8,9 | 10,6 | 12,4 | 14,2 | 15,9 | 17,7 |
| | Vertical Throw Vt 0,25 | mt | 1,2 | 2,5 | 3,7 | 5,0 | 6,2 | 7,4 | 8,7 | 9,9 | 11,2 | 12,4 |
| | Noise Level | dB(A) | 23 | 30 | 36 | 40 | 44 | 47 | 50 | 53 | 56 | 58 |
| DEL 800 4 SLOT Ak: 0,0318m2 | Flow Rate | m3/h | 115 | 229 | 344 | 458 | 573 | 688 | 802 | 917 | 1032 | 1146 |
| | Pressure Drop | Pa | 3 | 10 | 23 | 42 | 65 | 94 | 127 | 166 | 211 | 260 |
| | Horizontal Throw Vt 0,25 | mt | 2,0 | 4,0 | 6,1 | 8,1 | 10,1 | 12,1 | 14,1 | 16,2 | 18,2 | 20,2 |
| | Vertical Throw Vt 0,25 | mt | 1,4 | 2,8 | 4,2 | 5,7 | 7,1 | 8,5 | 9,9 | 11,3 | 12,7 | 14,1 |
| | Noise Level | dB(A) | 25 | 33 | 39 | 44 | 48 | 52 | 55 | 58 | 61 | 64 |

Note: the data indicated refer to operation in isothermal conditions



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## QUICK SELECTION TABLE - L. 1000mm - ISOTHERMAL CONDITIONS

| MODEL | DESCRIPTION | U.M. | Vi (m/sec) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **DEL 1000 1 SLOT** Ak: 0,0099m2 | Flow Rate | m3/h | 36 | 72 | 107 | 143 | 179 | 215 | 251 | 287 | 322 | 358 |
| | Pressure Drop | Pa | 1 | 4 | 9 | 15 | 24 | 35 | 47 | 61 | 78 | 96 |
| | Horizontal Throw Vt 0,25 | mt | 1,3 | 2,6 | 4,0 | 5,3 | 6,6 | 7,9 | 9,2 | 10,5 | 11,9 | 13,2 |
| | Vertical Throw Vt 0,25 | mt | 0,9 | 1,8 | 2,8 | 3,7 | 4,6 | 5,5 | 6,5 | 7,4 | 8,3 | 9,2 |
| | Noise Level | dB(A) | 20 | 26 | 31 | 35 | 39 | 42 | 45 | 48 | 50 | 52 |
| **DEL 1000 2 SLOT** Ak: 0,0199m2 | Flow Rate | m3/h | 72 | 143 | 215 | 287 | 358 | 430 | 501 | 573 | 645 | 716 |
| | Pressure Drop | Pa | 1 | 5 | 10 | 18 | 29 | 41 | 56 | 74 | 93 | 115 |
| | Horizontal Throw Vt 0,25 | mt | 1,9 | 3,8 | 5,6 | 7,5 | 9,4 | 11,3 | 13,2 | 15,1 | 16,9 | 18,8 |
| | Vertical Throw Vt 0,25 | mt | 1,3 | 2,6 | 4,0 | 5,3 | 6,6 | 7,9 | 9,2 | 10,5 | 11,9 | 13,2 |
| | Noise Level | dB(A) | 20 | 27 | 33 | 37 | 40 | 44 | 47 | 49 | 52 | 54 |
| **DEL 1000 3 SLOT** Ak: 0,0298m2 | Flow Rate | m3/h | 107 | 215 | 322 | 430 | 537 | 645 | 752 | 860 | 967 | 1075 |
| | Pressure Drop | Pa | 2 | 6 | 14 | 26 | 40 | 58 | 79 | 103 | 130 | 161 |
| | Horizontal Throw Vt 0,25 | mt | 2,2 | 4,4 | 6,7 | 8,9 | 11,1 | 13,3 | 15,6 | 17,8 | 20,0 | 22,2 |
| | Vertical Throw Vt 0,25 | mt | 1,6 | 3,1 | 4,7 | 6,2 | 7,8 | 9,3 | 10,9 | 12,4 | 14,0 | 15,6 |
| | Noise Level | dB(A) | 22 | 29 | 35 | 40 | 43 | 47 | 50 | 53 | 56 | 58 |
| **DEL 1000 4 SLOT** Ak: 0,0398m2 | Flow Rate | m3/h | 143 | 287 | 430 | 573 | 716 | 860 | 1003 | 1146 | 1290 | 1433 |
| | Pressure Drop | Pa | 3 | 10 | 23 | 41 | 64 | 92 | 125 | 163 | 206 | 255 |
| | Horizontal Throw Vt 0,25 | mt | 2,5 | 5,0 | 7,6 | 10,1 | 12,6 | 15,1 | 17,6 | 20,2 | 22,7 | 25,2 |
| | Vertical Throw Vt 0,25 | mt | 1,8 | 3,5 | 5,3 | 7,1 | 8,8 | 10,6 | 12,4 | 14,1 | 15,9 | 17,6 |
| | Noise Level | dB(A) | 24 | 32 | 39 | 44 | 48 | 52 | 55 | 58 | 61 | 64 |

Note: the data indicated refer to operation in isothermal conditions

 

## QUICK SELECTION TABLE - L. 1500mm - ISOTHERMAL CONDITIONS

| MODEL | DESCRIPTION | U.M. | Vi (m/sec) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| DEL 1500 1 SLOT Ak: 0,0149m2 | Flow Rate | m3/h | 54 | 107 | 161 | 215 | 269 | 322 | 376 | 430 | 484 | 537 |
| | Pressure Drop | Pa | 1 | 5 | 11 | 20 | 31 | 45 | 61 | 79 | 101 | 124 |
| | Horizontal Throw Vt 0,25 | mt | 2,0 | 4,0 | 5,9 | 7,9 | 9,9 | 11,9 | 13,9 | 15,9 | 17,8 | 19,8 |
| | Vertical Throw Vt 0,25 | mt | 1,4 | 2,8 | 4,2 | 5,6 | 6,9 | 8,3 | 9,7 | 11,1 | 12,5 | 13,9 |
| | Noise Level | dB(A) | 20 | 27 | 32 | 36 | 40 | 43 | 46 | 49 | 52 | 54 |
| DEL 1500 2 SLOT Ak: 0,0298m2 | Flow Rate | m3/h | 107 | 215 | 322 | 430 | 537 | 645 | 752 | 860 | 967 | 1075 |
| | Pressure Drop | Pa | 2 | 6 | 14 | 24 | 38 | 55 | 74 | 97 | 123 | 152 |
| | Horizontal Throw Vt 0,25 | mt | 2,9 | 5,7 | 8,6 | 11,5 | 14,4 | 17,2 | 20,1 | 23,0 | 25,9 | 28,7 |
| | Vertical Throw Vt 0,25 | mt | 2,0 | 4,0 | 6,0 | 8,0 | 10,1 | 12,1 | 14,1 | 16,1 | 18,1 | 20,1 |
| | Noise Level | dB(A) | 21 | 28 | 34 | 38 | 42 | 45 | 49 | 51 | 54 | 57 |
| DEL 1500 3 SLOT Ak: 0,0448m2 | Flow Rate | m3/h | 161 | 322 | 484 | 645 | 806 | 967 | 1128 | 1290 | 1451 | 1612 |
| | Pressure Drop | Pa | 3 | 10 | 23 | 42 | 65 | 94 | 128 | 167 | 211 | 260 |
| | Horizontal Throw Vt 0,25 | mt | 3,4 | 6,7 | 10,1 | 13,5 | 16,8 | 20,2 | 23,6 | 26,9 | 30,3 | 33,7 |
| | Vertical Throw Vt 0,25 | mt | 2,4 | 4,7 | 7,1 | 9,4 | 11,8 | 14,1 | 16,5 | 18,8 | 21,2 | 23,6 |
| | Noise Level | dB(A) | 23 | 32 | 38 | 43 | 47 | 51 | 55 | 58 | 61 | 64 |
| DEL 1500 4 SLOT Ak: 0,0597m2 | Flow Rate | m3/h | 215 | 430 | 645 | 860 | 1075 | 1290 | 1504 | 1719 | 1934 | 2149 |
| | Pressure Drop | Pa | 3 | 11 | 25 | 45 | 70 | 100 | 136 | 178 | 226 | 278 |
| | Horizontal Throw Vt 0,25 | mt | 3,8 | 7,6 | 11,4 | 15,2 | 19,0 | 22,8 | 26,6 | 30,4 | 34,1 | 37,9 |
| | Vertical Throw Vt 0,25 | mt | 2,7 | 5,3 | 8,0 | 10,6 | 13,3 | 15,9 | 18,6 | 21,2 | 23,9 | 26,6 |
| | Noise Level | dB(A) | 24 | 32 | 38 | 43 | 48 | 52 | 55 | 59 | 62 | 65 |

Note: the data indicated refer to operation in isothermal conditions



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## QUICK SELECTION TABLE - L. 2000mm - ISOTHERMAL CONDITIONS

| MODEL | DESCRIPTION | U.M. | Vi (m/sec) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **DEL 2000 1 SLOT** Ak: 0,0199m2 | Flow Rate | m3/h | 72 | 143 | 215 | 287 | 358 | 430 | 501 | 573 | 645 | 716 |
| | Pressure Drop | Pa | 2 | 7 | 16 | 28 | 44 | 63 | 86 | 112 | 142 | 175 |
| | Horizontal Throw Vt 0,25 | mt | 2,6 | 5,3 | 7,9 | 10,6 | 13,2 | 15,9 | 18,5 | 21,2 | 23,8 | 26,5 |
| | Vertical Throw Vt 0,25 | mt | 1,9 | 3,7 | 5,6 | 7,4 | 9,3 | 11,1 | 13,0 | 14,8 | 16,7 | 18,5 |
| | Noise Level | dB(A) | 20 | 27 | 33 | 38 | 42 | 45 | 49 | 52 | 55 | 57 |
| **DEL 2000 2 SLOT** Ak: 0,0398m2 | Flow Rate | m3/h | 143 | 287 | 430 | 573 | 716 | 860 | 1003 | 1146 | 1290 | 1433 |
| | Pressure Drop | Pa | 2 | 8 | 19 | 34 | 53 | 76 | 104 | 135 | 171 | 211 |
| | Horizontal Throw Vt 0,25 | mt | 3,9 | 7,8 | 11,6 | 15,5 | 19,4 | 23,3 | 27,1 | 31,0 | 34,9 | 38,8 |
| | Vertical Throw Vt 0,25 | mt | 2,7 | 5,4 | 8,1 | 10,9 | 13,6 | 16,3 | 19,0 | 21,7 | 24,4 | 27,1 |
| | Noise Level | dB(A) | 21 | 29 | 35 | 39 | 44 | 47 | 51 | 54 | 57 | 60 |
| **DEL 2000 3 SLOT** Ak: 0,0597m2 | Flow Rate | m3/h | 215 | 430 | 645 | 860 | 1075 | 1290 | 1504 | 1719 | 1934 | 2149 |
| | Pressure Drop | Pa | 2 | 9 | 20 | 36 | 56 | 80 | 109 | 142 | 180 | 222 |
| | Horizontal Throw Vt 0,25 | mt | 4,5 | 9,0 | 13,5 | 18,1 | 22,6 | 27,1 | 31,6 | 36,1 | 40,6 | 45,1 |
| | Vertical Throw Vt 0,25 | mt | 3,2 | 6,3 | 9,5 | 12,6 | 15,8 | 19,0 | 22,1 | 25,3 | 28,4 | 31,6 |
| | Noise Level | dB(A) | 21 | 29 | 35 | 40 | 44 | 48 | 51 | 55 | 58 | 61 |
| **DEL 2000 4 SLOT** Ak: 0,0796m2 | Flow Rate | m3/h | 287 | 573 | 860 | 1146 | 1433 | 1719 | 2006 | 2292 | 2579 | 2866 |
| | Pressure Drop | Pa | 4 | 16 | 37 | 66 | 103 | 148 | 201 | 263 | 333 | 411 |
| | Horizontal Throw Vt 0,25 | mt | 5,1 | 10,1 | 15,2 | 20,2 | 25,3 | 30,4 | 35,4 | 40,5 | 45,6 | 50,6 |
| | Vertical Throw Vt 0,25 | mt | 3,5 | 7,1 | 10,6 | 14,2 | 17,7 | 21,3 | 24,8 | 28,3 | 31,9 | 35,4 |
| | Noise Level | dB(A) | 24 | 33 | 40 | 46 | 51 | 55 | 59 | 63 | 66 | 70 |

Note: the data indicated refer to operation in isothermal conditions



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